

On-Call[®] Advanced

Blood **Glucose** Monitoring System

User's Manual



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On·Call® **Advanced** **Blood Glucose Monitoring System**

Self monitoring of blood glucose (SMBG) is an integral part of diabetes care, but the high cost of testing can make this impossible. At ACON, our goal is to provide high quality glucose monitoring at a price that allows you to test as often as necessary. Together, we can better manage your diabetes and help you live a longer and healthier life.

Welcome, and thank you for choosing the *On Call® Advanced Blood Glucose Monitoring System*. The *On Call® Advanced Blood Glucose Monitoring System* will give you accurate blood glucose results from Capillary, Venous, Neonatal, and Arterial blood samples in just a few simple steps.

To ensure accurate results from your *On Call® Advanced Blood Glucose Monitoring System*, please follow these guidelines:

- Read instructions before use.
- Use the code chip that accompanies each box of test strips.
- Use only *On Call® Advanced Blood Glucose Test Strips* with the *On Call® Advanced Blood Glucose Meter*.
- For *in vitro* diagnostic use only. Your blood glucose monitoring system is to be used only outside the body for monitoring the effectiveness of diabetes control. It should not be used for the diagnosis of diabetes.
- For self testing and professional use.
- Test only whole blood samples with the *On Call® Advanced Blood Glucose Test Strips* and meter.
- For self-testers, consult your physician or diabetes healthcare professional before making any adjustments to your medication, diet or activity routines.
- Keep out of reach of children.

By following the instructions outlined in this User's Manual, you will be able to use your *On Call® Advanced Blood Glucose Monitoring System* to monitor your blood glucose and better manage your diabetes.

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Getting Started

Before testing, read the instructions carefully and learn about all the components of your *On Call® Advanced* Blood Glucose Monitoring System. Depending on the *On Call® Advanced* product you purchase, some of the components may need to be purchased separately. Please check the list of contents on the outer box for details on which components are included with your purchase.



Blood Glucose Meter



Test Strips



Code Chip



Lancing Device



Clear Cap



Sterile Lancet



Control Solution



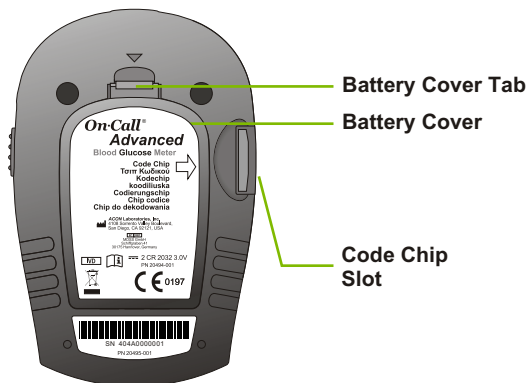
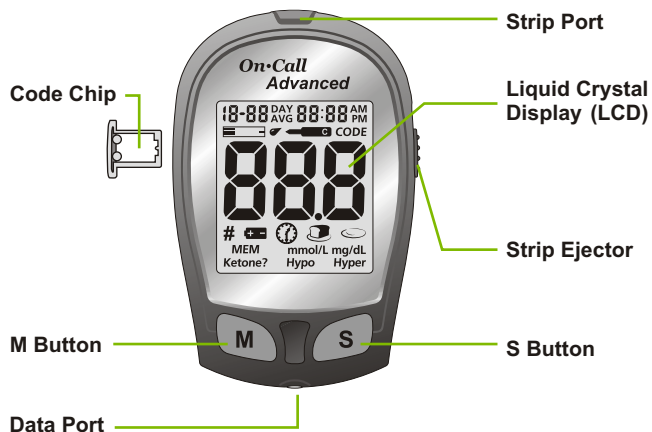
Carrying Case

Component Descriptions

1. **Blood Glucose Meter:** Reads the test strips and displays the blood glucose concentration.
2. **Test Strips:** Strips with a chemical reagent system used with the meter to measure glucose concentration in blood.
3. **Code Chip:** Automatically calibrates the meter with the code number when inserted into the meter.
4. **Lancing Device:** Used with sterile lancets to prick the fingertip, palm (at the base of the thumb) or forearm for blood sample collection. The packaged lancing device has multiple depth settings, allowing users to adjust the depth of the puncture and minimize discomfort. It can also eject the used lancets.
5. **Clear Cap:** Used with the lancing device and sterile lancet to draw a blood sample from the forearm and palm.
6. **Sterile Lancets:** Used with the lancing device to draw a blood sample. Sterile lancets are inserted into the lancing device with each blood draw and discarded after use.
7. **Control Solution:** Verifies the proper operation of the blood glucose monitoring system by checking the test strips and meter against a pre-calibrated control solution. Control Solution 1 is all you need most of the time. If you want to do additional levels of tests, Control Solution 2 are available. Control 1 and 2 are available in the *On Call® Advanced* Control Solution package which is sold separately.
8. **Carrying Case:** Provides portability for blood glucose testing wherever you go.
9. **User's Manual:** Provides detailed instructions on using the blood glucose monitoring system.
10. **Quick Reference Guide:** Provides a brief overview of the blood glucose monitoring system and testing procedures. This small guide can be kept in your carrying case.
11. **Quick Start Guide:** A short set of instructions to get you started testing with your new system.
12. **Logbook:** Allows users to record their blood glucose data and get a better picture of their broader trends.
13. **Warranty Card:** Should be completed and returned to the distributor to qualify for the 5-year meter warranty.

On Call® Advanced Blood Glucose Meter

The meter reads the test strips and displays the blood glucose concentration. Use this diagram to become familiar with all the parts of your meter.



Liquid Crystal Display (LCD): Shows your test results, and helps you through the testing process.

M Button: Recalls previous test results from the meter memory and performs other menu selection functions.

S Button: Selects meter settings and performs other menu selection functions.

Strip Port: Test strips are inserted into this area to perform a test.

Strip Ejector: Slide the ejector forward to discard the test strip.

Note: Dispose of blood samples and materials carefully. Treat all blood samples as if they are infectious materials. Follow proper precautions and obey all local regulations when disposing of materials. Follow proper precautions and obey all local regulations when disposing of blood samples and materials.

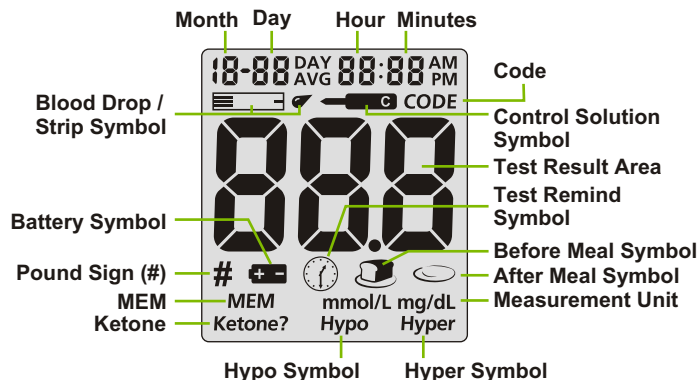
Battery Cover: Remove battery cover to install two CR2032 coin cell batteries.

Battery Cover Tab: Press the battery cover tab to open battery cover.

Code Chip Slot: Insert the code chip.

Data Port: Sends information to a computer via an optional data transfer cable to view, analyze and print stored data in the meter. The data transfer cable is available for order as an optional add-on.

Meter Display



Battery Symbol: Warns when you should replace the battery.

Blood Drop / Strip Symbol: There two symbols appear at the same time to tell you when to apply the sample.

Pound Sign (#): Appears with the control solution test result or when you mark an invalid result to prevent it from being included in the average.

Control Solution Symbol: Indicates a control test result. A pound sign (#) will also be displayed when control solution symbol appears.

Test Result Area: Indicates code number and test result.

Measurement Unit: Only one unit will be displayed on your meter and cannot be adjusted.

Hyper Symbol: Appears when the blood glucose concentration is above the target "Hyperglycemia" (high blood sugar) level that you have set.

Hypo Symbol: Appears when the blood glucose concentration is below the "Hypoglycemia" (low blood sugar) target level that you have set.

Ketone: Appears when the blood glucose concentration is above 16.7 mmol/L (300 mg/dL), which suggests a ketone test is recommended. Consult your healthcare professional about testing for ketones. Note: This symbol does not mean that the system has detected ketones. It recommends that a ketone test should be taken.

CODE: Appears with the code number of the test strips.

MEM: Shows a test result stored in memory.

Meter Use and Precautions

- The meter is pre-set to display blood glucose concentration in either millimoles per liter (mmol/L) or milligrams per deciliter (mg/dL) depending on which unit of measure is standard in your country. This unit of measure cannot be adjusted.
- Do not get water or other liquids inside the meter.
- Keep the strip port area clean.
- Keep your meter dry and avoid exposing it to extremes in temperature or humidity. Do not leave it in your car.
- Do not drop the meter or get it wet. If you do drop the meter or get it wet, check the meter by running a quality control test. Refer to **Quality Control Test** on page 17 for instructions.
- Do not take the meter apart. Taking the meter apart will void the warranty.
- Refer to the **Caring for Your Meter** section on page 35 for details on cleaning the meter.
- Keep the meter and all associated parts out of reach of children.

Note: Follow proper precautions and all local regulations when disposing of the meter and used batteries.

All Glucose systems preventive warnings with regard to EMC

- This instrument is tested for immunity to electrostatic discharge as specified in IEC 61000-4-2. However, use of this instrument in a dry environment, especially if synthetic materials are present (synthetic clothing, carpets, etc.) may cause damaging static discharges that may cause erroneous results.
- This instrument complies with the emission and immunity requirements described in EN61326-1 and EN61326-2-6. Do not use this instrument in close proximity to sources of strong electromagnetic radiation, as these may interfere with proper operation of the meter.
- For professional use, the electromagnetic environment should be evaluated prior to operation of this device.

On Call® Advanced Blood Glucose Test Strips

The *On Call® Advanced* Blood Glucose Test Strips are thin strips with a chemical reagent which work with the *On Call® Advanced* Blood Glucose Meter to measure the glucose concentration in whole blood. After the strip is inserted into the meter, blood is applied to the sample tip of the test strip. The blood is then automatically absorbed into the reaction cell where the reaction takes place. A transient electrical

current is formed during the reaction. The blood glucose concentration is calculated based on the electrical current detected by the meter. The result is shown on the meter display. The meter is calibrated to display plasma equivalent results.

IMPORTANT: Apply sample only to the sample tip of the test strip. Do not apply blood or control solution to the top of the test strip as this may result in an inaccurate reading.

Hold the blood drop to the sample tip of the test strip until the check window is completely full and until the meter begins to count down. If you applied a blood but do not see the starting of the count down, you may reapply a second drop of blood within 3 seconds. If the check window does not fill and meter starts to count down, then do not add more blood to the test strip. If you do then you may get an E-5 message or an inaccurate test result. In this case if the meter begins to count down and the check window does not fill, discard the strip and begin the test again with a fresh test strip.

Sample Tip

Apply blood or control solution here.



Check Window

Check to confirm that sufficient sample has been applied.

Contact Bars

Insert this end of the test strip into the meter until it stops.



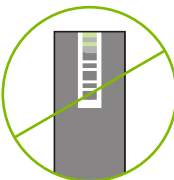
Correct



Incorrect



Correct



Incorrect

Code Number



Each package of test strips is printed with a code number (CODE), lot number (LOT), unopened expiration date (📅) and control range (CTRL 1 and CTRL 2).

Storage and Handling

Please review the following storage and handling instructions:

- Store test strips in a cool, dry place at room temperature, 2-30°C (36-86°F). Store them away from heat and direct sunlight.
- Do not freeze or refrigerate.
- Do not store or use test strips in a humid place such as a bathroom.
- Do not store the meter, the test strips or control solution near bleach or cleaners that contain bleach.
- Replace the cap on the test strip vial immediately after removing a test strip.
- The test strip should be used immediately after removing it from container.
- Do not use your test strips past the unopened expiration date printed on the label. Using test strips past the unopened expiration date may produce incorrect test results.

Note: The expiration date is printed in Year-Month format. 2010-01 means January, 2010.

Special Instructions for Test Strip in the Vial

- Test strips should be stored in their tightly capped protective vial to keep them in good working condition.
- Do not store test strips outside their protective vial. Test strips must be stored in the original vial with the cap tightly closed.
- Do not transfer test strips to a new vial or any other container.
- Replace the cap on the test strip vial immediately after removing a test strip.
- A new vial of test strips may be used for 6 months after first being opened. The opened expiration date is 6 months after the date the vial was first opened. Write the opened expiration date on the vial label after opening. Discard the vial 6 months after you first open it, usage after this period may result in inaccurate readings.

Special Instructions for Test Strip in Foil Pouch

- Tear the pouch carefully starting from the tear gap. Avoid damaging or bending the test strip.
- Use test strip immediately after removing it from the pouch.

Test Strip Precautions

- For *in vitro* diagnostic use. Test strips are to be used only outside the body for testing purposes.
- Do not use test strips that are torn, bent, or damaged in any way. Do not reuse test strips.
- Before running a blood glucose test, make sure that the code number on the meter display matches the number shown on the test strip vial or on the pouch.
- Keep the test strip vial or the foil pouch away from children and animals.
- Consult your physician or healthcare professional before making any changes in your treatment plan based on your blood glucose test results.

See the test strip insert for more details.

On Call® Advanced Glucose Control Solution

The *On Call® Advanced* Glucose Control Solution contains a known concentration of glucose. It is used to confirm that your *On Call® Advanced* Blood Glucose Meter and test strips are working together properly and that you are performing the test correctly. It is important to run a quality control test regularly to make sure you are getting correct results.

You should run a quality control test:

- Before you first use your meter, to familiarize yourself with its operation.
- Before using a new box of test strips.
- When you suspect that the meter or test strips are not working properly.
- When you suspect that your test results are inaccurate, or if they are inconsistent with how you feel.
- When you suspect your meter is damaged.
- After cleaning your meter.
- At least once a week.

Refer to **Quality Control Test** on page 17 for instructions on running a quality control test.



Storage and Handling

Please review the following storage and handling instructions:

- Store the control solution at room temperature, 2-30°C (36-86°F).
- Do not refrigerate or freeze.
- If the control solution is cold, do not use until it has warmed to room temperature.
- Use before the unopened expiration date that is shown on the bottle. Note: The expiration date is printed in Year-Month format. 2010-01 means January, 2010.
- Each bottle of control solution can be used for 6 months after you first open it. The control solution will expire 6 months after the bottle is opened for the first time. Record this opened expiration date on the bottle label.

Control Solution Precautions

- For *in vitro* diagnostic use. The control solution is for testing only outside the body. Do not swallow or inject.
- Shake well before using.
- Control solution tests are specified to be accurate only when tested between 10 and 40°C.
- The control ranges shown on the test strip vial or on the foil pouch are not recommended ranges for your blood glucose level. Your personal blood glucose target ranges should be determined by your diabetes healthcare professional.
- Do not touch the test strip with the tip of the control solution bottle.
- Use only the same brand of control solution that was provided with your kit.

See the control solution insert for more details.

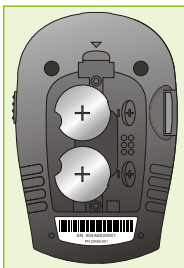
Install the Battery

Battery may not be preinstalled in the meter. Two CR 2032 3.0V coin cell batteries are required. Please find the batteries in your carrying case and install them according to the following steps:

1. Turn over the meter to locate the battery cover. Press the battery cover tab on the top and lift the cover to open it.



2. Insert two new CR 2032 3.0V coin cell batteries on top of the plastic tape. Make sure it is aligned with the plus (+) side facing up in the battery carrier.



3. Close the battery cover and make sure that it snaps shut.

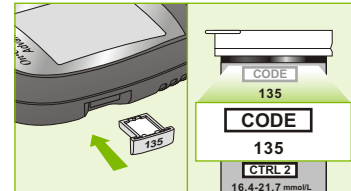
Meter Setup Before Testing

Before testing, the following steps should be followed:

Step 1 - Coding the Meter

Every time you change to a new box of test strips, you need to insert the code chip packed with the new box of test strips.

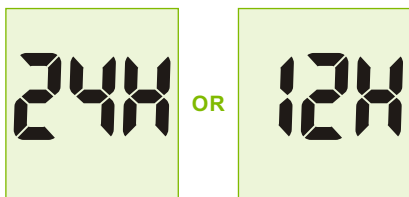
1. Take the code chip from the test strip box. Compare the code number on the code chip with the code number printed on the test strip vial label (or on foil pouch). If the two numbers are not identical, you may get inaccurate results. If the code number on the code chip does not match the number on the test strip vial (or on foil pouch) with which it was packaged, please contact your local dealer immediately.
2. With your meter turned off, insert the new code chip into the code chip slot of the meter. It should easily snap into place. The code chip should remain in the meter, do not take it out until you change to another new box of test strips.
3. Turn the meter on by inserting a test strip. You can see the code number appear on the center of the screen. If the code number on the code chip does not match the number that is displayed on the screen, please contact your local dealer immediately. Note: If a test strip is inserted and no strip code is stored in the memory, the display will flash "----" and "CODE".



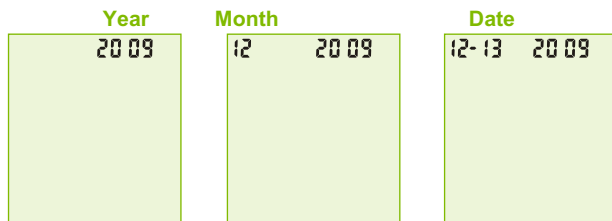
Step 2 - Adjusting the Meter Settings

Before using your meter for the first time, you will need to adjust the settings that are listed in detail below.

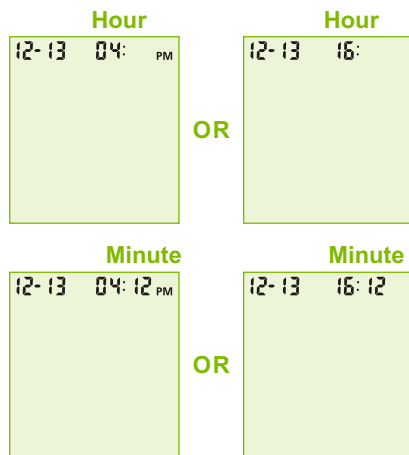
1. Meter Setup Mode: Press the S button for 2 seconds to enter the meter setup mode. The meter will automatically enter the setup mode when turned on for the first time by any method.
2. Clock: Set the clock for either 12 or 24 hour mode. Press the M button to switch between the two settings, then press the S button to save your choice and then start setting the year, month and date. Note: The clock needs to be reset after replacing the battery.



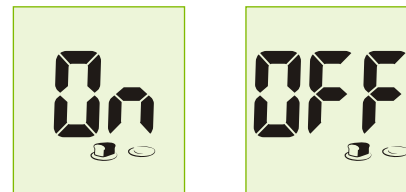
3. Date: The year will appear at the top of the display. Press the M button until the correct year is displayed. Once you have selected the correct year, press the S button to save your choice and start setting the month. Press the M button until the correct month is displayed, then press the S button to save your choice and start setting the date. Press the M button until the correct date is displayed, then press the S button to save your choice and start setting the time.



4. Time: The hour will appear at the top of the display. Adjust the hour with the M button until the correct hour is displayed. Press the S button to save your choice and set the minutes. Press the M button to change to the correct minute. Press the S button to save your choice and move to set the meal marker feature.

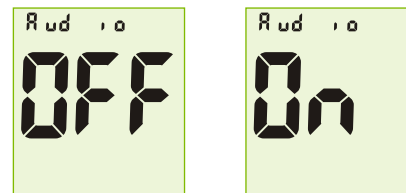


5. Meal Marker: The meter comes with the Meal Marker feature disabled. The meter shall allow the user to enable or disable the test result meal marker option. The words "On" or "Off" will be displayed on the large center segments of the display and the symbol of "before meal" and "after meal" will be displayed as shown below.



Press the M button to switch between turning the Meal Marker "On" and "Off". Press the S button to confirm your selection.

6. Audio Feature: The meter comes with the meter audio feature enabled. The meter will give one short beep when it is turned on, after sample detection, and when the result is ready. The meter will sound three short beeps to sound a warning when an error has occurred. Please check the error number on the display to confirm what kind of error has occurred.



Press the M button to switch between turning the meter beep "On" and "Off". Press the S button to confirm your selection.

7. Ketone Indicator: The meter comes with the Ketone indicator feature disabled. Press the M button to switch between turning the Ketone indicator "On" and "Off". Press the S button to confirm your selection. When the Ketone indicator is enabled, if the test result is higher than 16.7 mmol/L (300 mg/dL) the symbol of "Ketone?" will appear on the display.



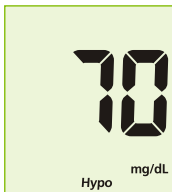
8. Hyper Indicator: The meter comes with the Hyper indicator feature disabled. Press the M button to switch between turning the Hyper indicator "On" and "Off". Press the S button to confirm your

selection. When the Hyper indicator is "Off", pressing the S button will go to the next Hypo indicator set up. When the Hyper indicator is "On", pressing the S button will go to the Hyper indicator level set up. At the Hyper level set up, press the M button to adjust the Hyper level then press the S button to go to the Hypo indicator set up.



Note: The meter allows the hyperglycemia level to be as low as 6.7 mmol/L (120 mg/dL) or higher. The hyperglycemia level should be above the hypoglycemia level. Consult your healthcare professional before determining what your hyper blood glucose level is.

9. Hypo Indicator: The meter comes with the Hypo indicator feature disabled. Press the M button to switch between turning the Hypo indicator "On" and "Off". Press the S button to confirm your selection. When the Hypo indicator is "Off", pressing the S button will go to the Test Reminder set up. When the Hypo indicator is "On", pressing the S button will go to the Hypo indicator level set up. At the Hypo level set up, press the M button to adjust the Hypo level then press the S button to go to the Test Reminder set up.



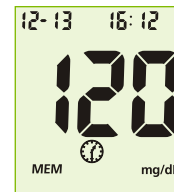
Note: The meter allows the hypoglycemia level to be as high as 5.6 mmol/L (100 mg/dL). The hyperglycemia level should be above the hypoglycemia level. Consult your healthcare professional before determining what your hypo blood glucose level is.

10. Test Reminder: Test reminders are a useful way to remind you when to test. You can set 1 to 5 reminders per day. Your meter is preset with the test reminder disabled. You must turn it on to use this feature.
- Press the M button to switch between turning the first Test Reminder "On" and "Off". Press the S button to confirm your selection. When the Test Reminder is "Off", pressing the S button will go to the set up of the second Test Reminder. When the Test Reminder is "On", pressing the S button will go to the set up of the time for the first Test Reminder. Press the M button to adjust the first Test Reminder time. (Time is adjusted by every 15 minutes.) Press the S button to confirm the first Test Reminder time and then go to the second Test Reminder set up.
 - When the Test Reminder is "Off" during the second Test Reminder set up, pressing the S button will go to the set up of the third Test Reminder. When the Test Reminder is "On", pressing the S button will go to the set up of the time for the

second Test Reminder. Press the M button to adjust the second Test Reminder time. (Time is adjusted by every 15 minutes.) Press the S button to confirm the second Test Reminder time and then go to the third Test Reminder set up.

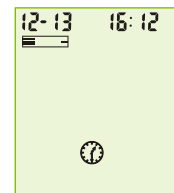
- Repeat the same set up procedure for Test Reminder 3, 4 and 5.
- After finishing the fifth Test Reminder set up, it will then end the setup mode and power off the meter.

If one or more test reminders have been set, the reminder symbol will always appear on LCD screen when the meter is turn on. The display sample is shown in below.



The meter beeps 5 times at the time you set, again five minutes later, and five minutes after that unless you insert a test strip or press any button. This function can still work with Audio feature turned off.

When the meter beeps at the time set by the Test Reminder feature, the date, time and strip symbol will be displayed. And the Test Reminder symbol will be flashed. The display sample is shown below.



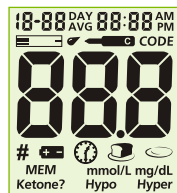
NOTE:

- For any step of the set up, if the M button is pressed and held, it will allow a faster adjustment.
- The user can press and hold the S button for 2 seconds to stop the set up and turn off the meter during any step of the set up process, except when setting up the year, date and time for the first time after installing a new battery.

Performing a Quality Control Test

The quality control test confirms that the test strips and meter are working together properly, and that you are performing the test correctly. It is important to perform this test:

- Before you first use your meter.
 - Before using a new box of test strips.
 - When you suspect that the meter or test strips are not working properly.
 - When you suspect that your test results are inaccurate, or if they are inconsistent with how you feel.
 - When you suspect your meter is damaged.
 - At least once a week.
1. Insert a test strip into the strip port, contact bars end first and facing up. (Insert the strip in as far as it will go without forcing.) This will turn on the meter and display all the display segments. If the audio option is on, the meter will beep, signaling the meter is turned on.

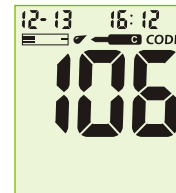


2. Check the display to confirm that all the display segments turn on (see display illustration above).
3. Following this display check, the system will enter the test mode. The display will show the date, time, and the strip icon with the blood sample icon blinking. The code number will be displayed in the center of the screen. Make sure that the code number that appears on the display matches the code number (CODE) on the test strip vial (or on the foil pouch). If not, make sure to locate and insert the code chip that came with the box of strips. If the codes still do not match, do not perform a test. You will need a new package of test strips to perform a test.

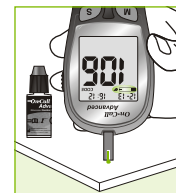


The blinking test strip and blood drop icon indicates that the test strip is inserted correctly and a drop of control solution can be added.
Note: If the test strip has been inserted incorrectly, the meter will not turn on.

4. Press the M button to mark the test as a control solution test. Once the M button is pressed, the control solution symbol will appear on the display.



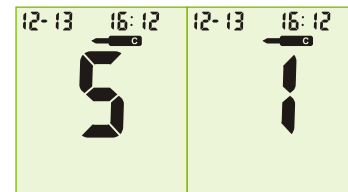
5. Shake the control solution bottle well, then squeeze it gently and discard the first drop. If the tip clogs, tap the tip gently on a clean, hard surface, shake again, and then use. Squeeze out a second small drop on a clean nonabsorbent surface. Touch the sample tip of the test strip to the control solution drop. If the audio option is turned on, the meter will beep to indicate a test has been started.



Notes:

- Do not apply control solution to the test strip directly from the bottle
- If you applied the control solution sample but do not see the starting of the count down, you may reapply a second drop within 3 seconds.

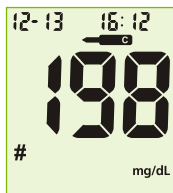
6. Once a sufficient sample has been applied, the meter display will count down from 5 to 1 and then display the result. The control solution test results should be within the control range printed on the test strip vial (or on the foil pouch). This means that your blood glucose monitoring system is working properly and that you are performing the procedure correctly.



Test results are displayed either in mmol/L or mg/dL depending on the unit of measure most common in your country.

Note: The control solution range is the expected range for the control solution results. It is not a recommended range for a blood glucose level.

7. Slide the strip ejector to discard the test strip. The display should also show a pound sign (#) indicating the test is a control solution test. This shows that the number will not be counted in the 7, 14, 30, 60 and 90-day averages. The pound sign (#) will also be displayed when reviewing the results stored in the memory.



If the result falls outside the indicated control range:

- Confirm you are matching the correct range. Control Solution 1 results should be matched to the CTRL 1 range printed on the test strip vial (or on the foil pouch).
- Check the expiration date of the test strip and control solution. Make sure that the test strip vial and control solution bottle have not been opened for more than 6 months. Discard any test strips or control solution that has expired.
- Confirm the temperature in which you are testing is between 10 and 40°C (50-104°F).
- Make sure that the test strip vial and control solution bottle have been tightly capped.
- Make sure the code number on the strip vial label or on the foil pouch matches the code number that appears on the meter display.
- Confirm that you are using the same brand of control solution that was provided with your kit.
- Make sure that you followed the test procedure correctly.

After checking all of the conditions listed above, repeat the quality control test with a new test strip. If your results still fall outside of the control range shown on the test strip vial (or on the foil pouch), your meter may be defective. Contact your dealer for help.

Two levels of control solution are available labeled Control Solution 1 and Control Solution 2. Control Solution 1 is sufficient for most all self-testing needs. If you think your meter or strips may not be working correctly, you may also want to do a level 2 test. The ranges for both (CTRL 1 and CTRL 2) are displayed on the test strip vial (or on the foil pouch). Simply repeat Steps 4 through 6, using Control Solution 2.

For confirmation of results, Control Solution 1 tests should fall within the CTRL 1 range, and Control Solution 2 tests should fall within the CTRL 2 range. If the control solution test results do not fall within the respective ranges, DO NOT use the system to test blood, as the system may not be working properly. If you cannot fix the problem, contact your dealer for help.

Please contact your dealer for information on ordering the *On Call® Advanced Glucose Control Solution Kit*, which contains Control Solution 1 and Control Solution 2.

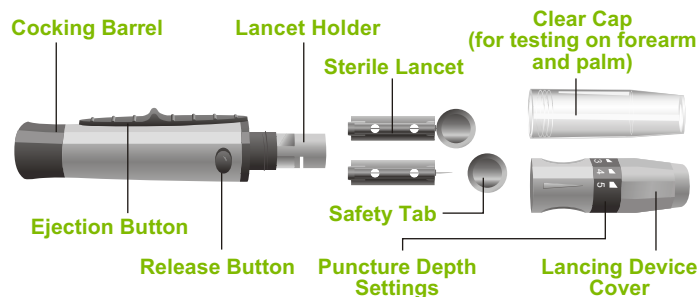
Testing Your Blood

The following steps show how to use the meter, test strips, lancing device and sterile lancets together to measure your blood glucose concentration.

Step 1 - Getting a Drop of Blood

The *On Call® Advanced Blood Glucose Monitoring System* requires a very small drop of blood which may be obtained from the fingertip, palm (at base of the thumb), or forearm. Before testing, choose a clean, dry work surface. Familiarize yourself with the procedure and make sure you have all the items needed to obtain a drop of blood.

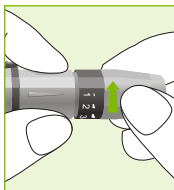
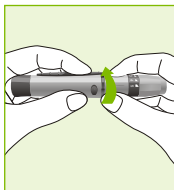
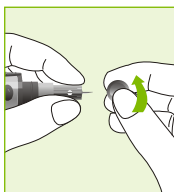
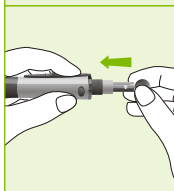
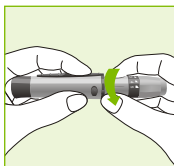
IMPORTANT: Prior to testing, wipe the test site with an alcohol swab or soapy water. Use warm water to increase blood flow if necessary. Then dry your hands and the test site thoroughly. Make sure there is no cream or lotion on the test site.



Fingertip Testing

For fingertip sampling, adjust the depth penetration to reduce the discomfort. You do not need the clear cap for fingertip sampling.

1. Unscrew the lancing device cover from the body of the lancing device. Insert a sterile lancet into the lancing device and push it until the lancet comes to a complete stop in the lancing device.
2. Hold the lancet firmly in the lancing device and twist the safety tab of the lancet until it loosens, then pull the safety tab off the lancet. Save the safety tab for lancet disposal.
3. Carefully screw the cover back onto the lancing device. Avoid contact with the exposed needle. Make sure the cover is fully sealed on the lancing device.
4. Adjust the puncture depth by rotating the lancing device cover. There are a total of 5 puncture depth settings. To reduce the discomfort, use the lowest setting that still produces an adequate drop of blood.



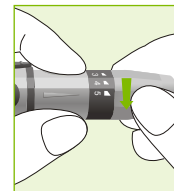
Adjustment:

1 and 2 for delicate skin

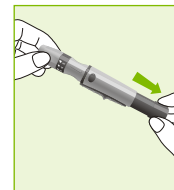
3 for normal skin

4 and 5 for calloused or thick skin

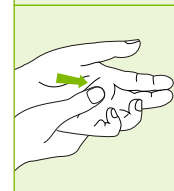
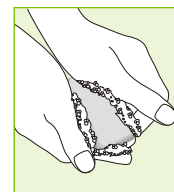
Note: Greater pressure of the lancing device against the finger will also increase the puncture depth.



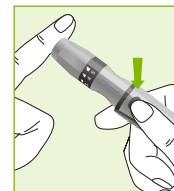
5. Pull the cocking barrel back to set the lancing device. You may hear a click. The device is now loaded and ready for obtaining a drop of blood.



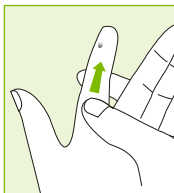
6. Prior to testing, wipe your hand with an alcohol swab or wash your hands with soap. Use warm water to increase blood flow in your fingers if necessary. Then dry your hands thoroughly. Massage the hand from the wrist up to the fingertip a few times to encourage blood flow.



7. Hold the lancing device against the side of the finger to be lanced with the cover resting on the finger. Push the release button to prick your fingertip. You should hear a click as the lancing device activates. Gently massage from the base of the finger to the tip of the finger to obtain the required blood volume. Avoid smearing the drop of blood.



For the greatest reduction in pain, lance on the sides of the fingertips. Rotation of sites is recommended. Repeated punctures in the same spot can make your fingers sore and callused.



Forearm or Palm Testing

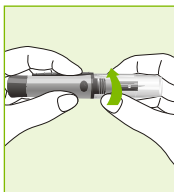
The forearm and palm areas have less nerve endings than the fingertip, so you may find that obtaining blood from these sites is less painful than from the fingertip. The procedure for forearm and palm sampling is different. You need the clear cap to draw blood from these sites. The clear cap is not adjustable for puncture depth.

IMPORTANT: There are important differences among forearm, palm and fingertip samples that you should know. Important information about forearm, palm glucose testing:

- You should consult your healthcare professional before choosing to perform forearm or palm testing.
- When blood levels are changing rapidly such as after a meal, insulin dose or exercise, blood from the fingertips may show these changes more rapidly than blood from other areas.
- Fingertips should be used if testing is within 2 hours of a meal, insulin dose or exercise and any time you feel glucose levels are changing rapidly.
- You should test with the fingertips anytime there is a concern for hypoglycemia or you suffer from hypoglycemia unawareness.

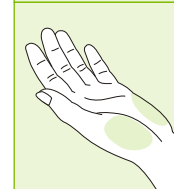
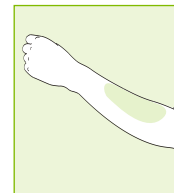
Please refer to **Fingertip Testing** to insert the lancet and load the lancing device.

1. Screw the clear cap onto the lancing device.



2. Choose a puncture site on the forearm or palm. Select a soft, fleshy area of the forearm that is clean and dry, away from bone, and free of visible veins and hair.

To bring fresh blood to the surface of the puncture site, massage the puncture site vigorously for a few seconds until you feel it getting warm.

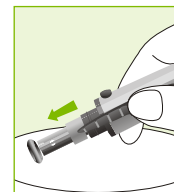
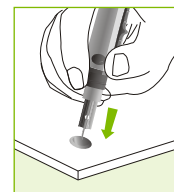


3. Place the lancing device against the puncture site. Press and hold the clear cap against the puncture site for a few seconds. Press the release button of the lancing device, but **do not immediately lift the lancing device** from the puncture site. Continue to hold the lancing device against the puncture site until you can confirm a sufficient blood sample has formed.



Disposal of the Lancet

1. Unscrew the lancing device cover. Place the safety tab of the lancet on a hard surface and carefully insert the lancet needle into the safety tab.
2. Press the release button to make sure that the lancet is in the extended position. Slide the ejection button forward to discard the used lancet. Place the lancing device cover back on the lancing device.



Lancet Precautions

- Do not use the lancet if the safety tab is missing or loose when you take the lancet out of the bag.
- Do not use the lancet if the needle is bent.
- Use caution whenever the lancet needle is exposed.
- Never share lancets or the lancing device with other people.
- In order to reduce the risk of infection from prior use of the instrument, always use a new, sterile lancet. Do not reuse lancets.
- Avoid getting the lancing device or lancets dirty with hand lotion, oils, dirt or debris.

Specimen collection and preparation by healthcare professionals

- Venous, neonatal, or arterial blood may be used only if drawn by healthcare professionals. When collecting any type of sample, professionals need to follow universal blood collection precautions and guidelines.
- A small drop of fresh whole blood is needed to perform the blood glucose test. Venous or arterial blood samples in heparin and EDTA anticoagulants/preservatives may be used. Do not use anticoagulants such as iodoacetate, sodium citrate, or those containing fluoride. Do not use serum or plasma samples.
- Neonatal blood sample may be collected from heel using a single-use lancing device.
- Always test the blood sample as close as possible to the time the sample is collected. Otherwise, the venous or arterial blood glucose measurement should be performed within 15 minutes of blood sample collection to minimize the effect of glycolysis.
- When whole blood in a test tube is used, care should be taken to uniformly distribute red cells throughout the tube before testing. Gently invert the capped tube several times. (Please note do not mix the blood sample in the tube too much.)

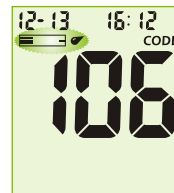
Step 2 - Testing Blood Glucose

Note: Insertion of a new test strip at any time, except while in the data transfer mode (detailed on page 33), will cause the meter to automatically enter the test mode.

1. Insert a test strip into the strip port, contact bars end first and facing up, to turn on the meter and display all the display segments. If the audio option is on, the meter will beep, signaling the meter is turned on.



Make sure that the code number that appears on the display matches the code number (CODE) on the test strip vial (or on the foil pouch). If not, make sure to locate and insert the code chip that came with the box of strips. If the codes still do not match, do not perform a test. You will need a new package of test strips to perform a test.

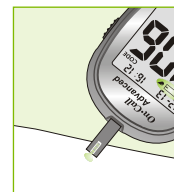


2. The blinking test strip and blood drop icon will indicate that the test strip is inserted correctly and a drop of blood can be added. If the test strip has been inserted incorrectly, the meter will not turn on.
3. Touch the blood sample to the sample tip at the end of the test strip. If the audio option is turned on, the meter will also beep to indicate the measurement has started. If you applied a blood but do not see the starting of the count down, you may reapply a second drop of blood within 3 seconds.



DO NOT:

- Apply sample to the front or back of the test strip.
- Smear the blood drop onto the test strip.
- Press your finger against the test strip.



4. The meter will count down from 5 to 1 and then display the measurement results. The meter will also beep to indicate that measurement is complete. Then your blood glucose level will display on the screen, along with the unit measurement, and the date and time of the test.

Blood Glucose results are automatically stored in the memory. To mark invalid results and to prevent them from being included in the 7, 14, 30, 60 and 90-day averages, press the M and S buttons together. A pound sign (#) will appear on the display to show that the result will not be included when calculating the 7, 14, 30, 60 and 90-day averages. If a result is marked by accident, press the M button to unmark the result. After marking the invalid result with a pound sign (#), press the S button to confirm the invalid result. After marking the invalid result, run the test again with a new test strip.

When the meal marker feature is turned on and a test result is displayed, mark the result as "before meal", "after meal", or invalid.

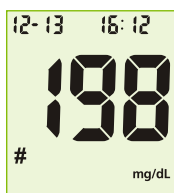
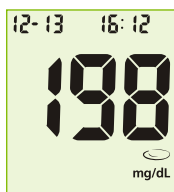
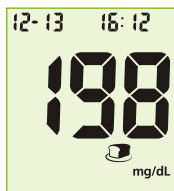
- Press the M and S buttons together to display the "before meal marker" symbol, indicating the result was taken before a meal.
- Press the M button again to display the "after meal marker" symbol, indicating the result was taken after a meal.
- Press the M button again to display the pound sign (#), indicating an invalid result.
- Press the M button again then none of the above markers will be displayed for the result.

After deciding the selection, press the S button to confirm the selection for either "before meal marker", "after meal marker", "invalid result pound sign" or none of these three symbols. If an invalid result is marked, run the test again with a new test strip.

If an error message appears on the display, refer to the **Troubleshooting Guide** on page 39. If a "HI" or "LO" error appears on the display, refer to "HI" and "LO" messages below.



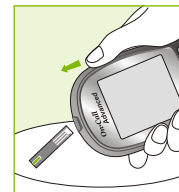
OR



5. After inspection, record valid results in your logbook with the date and time, and compare them to the target goals set by your healthcare professional. Refer to **Suggested Testing Times and Target Goals** on page 37 and your logbook for more details on your target blood glucose concentration goals.

6. Slide forward the strip ejector to discard the test strip.

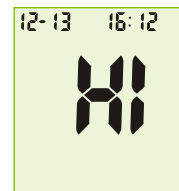
Note: Dispose of blood samples and materials carefully. Treat all blood samples as if they are infectious materials. Follow proper precautions and obey all local regulations when disposing of blood samples and materials.



"HI" and "LO" Messages

The meter can accurately measure blood glucose concentrations between 0.6 to 33.3 mmol/L (10 to 600 mg/dL). "HI" and "LO" messages indicate results outside of this range.

If "HI" appears on the display, the measured concentration value is above 33.3 mmol/L (600 mg/dL). The test should be retaken to ensure that no mistake was made in the procedure. If you are certain the meter is functioning properly and no mistakes were made in the procedure, and your blood glucose is still consistently measured as "HI", it indicates severe hyperglycemia (high blood glucose). You should contact your healthcare professional immediately.

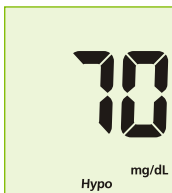


If "LO" appears on the display, the measured concentration value is below 0.6 mmol/L (10 mg/dL). The test should be retaken to ensure that no mistake was made in the procedure. If you are certain the meter is functioning properly and no mistakes were made in the procedure, and your blood glucose is still consistently measured as "LO", it may indicate severe hypoglycemia (low blood glucose). You should treat yourself for hypoglycemia immediately as recommended by your healthcare professional.



"Hypo" and "Hyper" Messages

If "Hypo" appears on the display, the measured concentration value is below the "Hypo" (low blood sugar) target level that you have set.

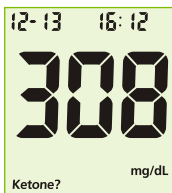


If "Hyper" appears on the display, the measured concentration value is above the "Hyper" (high blood sugar) target level that you have set.



"Ketone" Message

If "Ketone?" appears on the display, the measured concentration value is above 16.7 mmol/L (300 mg/dL) which suggests a ketone test is recommended. Consult your healthcare professional about testing for ketones.



Precautions and Limitations

WARNING: To avoid false readings, do not use *On Call® Advanced* Blood Glucose Monitoring System if you are taking drugs that break down to maltose or galactose. These drugs can cause inaccurate blood sugar test results due to the increase in maltose or galactose presence in the blood.

The following drugs represent some drugs that may lead to false readings:

- Peritoneal dialysis solutions containing icodextrin (e.g., Extraneal, Icodial).
- Certain types of intravenous immunoglobulin therapies (e.g., Octagam® 5%).
- Intravenous solutions containing maltose as a means for patient hydration.

NOTE: To determine if a drug breaks down to maltose or galactose please consult the drug package insert. The list above is not meant to be an all inclusive list and may be missing other drugs.

- Do not use *On Call® Advanced* Blood Glucose Monitoring System during a xylose absorption test.
- Blood glucose level readings may be overestimated if concentration for galactose levels > 10 mg/dL, maltose levels > 13 mg/dL, or lactose levels > 5 mg/dL in the blood.
- The meter, test strips and other components have been designed, tested and proven to work together effectively to provide accurate blood glucose measurements. Do not use components from other brands.
- Do not use the meter in any manner not specified by the manufacturer. Otherwise, the protection provided by the meter may be impaired.
- The *On Call® Advanced* Test Strips are for testing fresh capillary, venous, neonatal or arterial whole blood. Do not use with serum or plasma samples.
- The *On Call® Advanced* Blood Glucose Monitoring System is indicated for professional use and over the counter sale. Professionals may use the test strips to test capillary, venous, neonatal and arterial blood samples; user is limited to capillary whole blood testing.
- Blood glucose measurement with venous or arterial blood must be performed within 15 minutes of sample collection.
- Anticoagulant preservatives such as heparin or EDTA are recommended for best results in using venous or arterial blood. Use of anticoagulants such as iodoacetate, sodium citrate, or those containing fluoride is not advised.
- Very high (above 70%) and very low (below 20%) hematocrit can cause false results. Talk to your healthcare professional to find out your hematocrit level.
- Abnormally high levels of Vitamin C (ascorbic acid) or other reducing substances will produce falsely high blood glucose measurements.
- Fatty substances, such as Triglycerides up to 166.7 mmol/L (3,000 mg/dL) or Cholesterol up to 27.8 mmol/L (500 mg/dL), have no major effect on blood glucose test results.
- The *On Call® Advanced* Blood Glucose Monitoring System has been tested and shown to work properly up to 10,000 ft (3,048 meters).
- Severely ill persons should not run the glucose test with the *On Call® Advanced* Blood Glucose Monitoring System.
- Blood samples from patients in shock, or with severe dehydration or from patients in a hyperosmolar state (with or without ketosis) have not been tested and are not recommended for testing with *On Call® Advanced* Blood Glucose Monitoring System.
- Dispose of blood samples and materials carefully. Treat all blood samples as if they are infectious materials. Follow proper precautions and obey all local regulations when disposing of blood

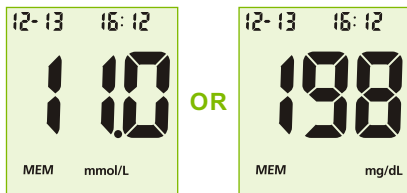
Using the Meter Memory

The meter automatically stores up to 300 test records. Each record includes the test result, time and date. If there are already 300 records in the memory, the oldest record will be erased to make room for a new one. The meter will also calculate the average values of records from the last 7, 14, 30, 60 and 90 days.

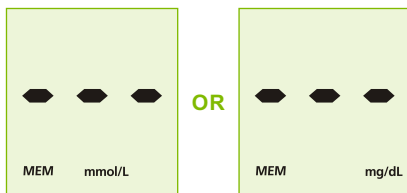
Viewing Stored Records

To view stored records:

1. Press the M button to turn the meter on and enter memory mode. The most recent value and the word "MEM" will appear on the display.



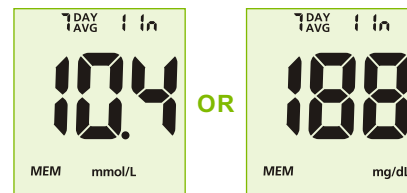
2. If you are using the meter for the very first time, the meter display will show three dashed lines (---), the word "MEM" and the unit of measure. This shows that no data has been stored in memory.



3. The date and time will be displayed together with the results stored in the memory. A pound sign (#) indicates records that will be omitted from the 7, 14, 30, 60 and 90-day averages.
4. Press the M button to go through the stored records. Press the S button to view the data averages. The words "DAY AVG" will appear on the screen.

Note: If you do not wish to view your average glucose measurements, you can press the S button again to turn off the display.

5. While in data average mode, press the M button to switch between the 7, 14, 30, 60 and 90-day averages. The meter will calculate the average that you selected. The number of records used in the "DAY AVG" will also appear in the display.



6. If there are fewer than 7, 14, 30, 60 and 90-days in memory, all the unmarked readings currently stored in memory will be averaged instead.

If you are using the meter for the very first time, no value will appear on the display. This means that no records have been stored in memory.

7. Press the S button to turn off the display.
Note: Results from quality control tests will not be included in the averages. When viewing results in memory, these values are marked with a pound sign (#) to show that they will not be included in the 7, 14, 30, 60 and 90 day averages.

Clearing the Memory

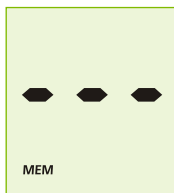
Extreme caution should be used when clearing the memory. This is not a reversible operation. To clear the memory:

1. With the meter off, press and hold the M button for two seconds. This will turn on the meter and enter the delete mode.



2. To clear the memory, press and hold both the M and S buttons for two seconds.

3. The display will show "MEM" and "---", the meter will clear its memory and turn itself off after a moment.
4. If you entered the delete mode but want to exit without deleting the recorded data, press the S button. This will turn the meter off without deleting any data.



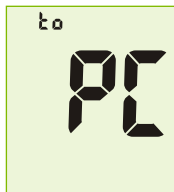
Transferring Records

The meter can transfer stored information to a Windows-based personal computer (PC) using an optional data transfer cable and software package.

1. Install the software into your personal computer (PC) according to the instructions from the Diabetes Data Management Kit.
2. Press the M and S buttons to enter the data transfer mode. "PC" will appear on the display when the meter enters the data transfer mode.

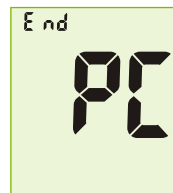


3. Run the PC software, and enable the data transfer mode. Refer to the instructions packaged with the data transfer cable for this operation.
4. During the data transfer, the meter will display "to" and "PC". This indicates the data is being transferred from the meter to the PC.



5. Once the data transfer is complete, the meter will display "End" and "PC" and turn itself off after a moment.
6. Press the S button if you entered the data transfer mode but want to exit before performing the data transfer procedure. This will turn the meter off and exit the PC mode.

See the package insert included with your Diabetes Data Management Kit for detailed instructions.



Maintenance

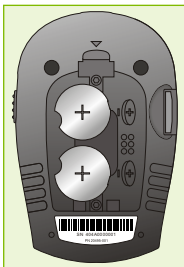
Proper maintenance is recommended for best results.

Replacing the Battery

When the battery icon (⚡) is blinking, it means the battery is running low and you should replace the battery as soon as possible. An "E-6" error message will appear if the battery is too low to perform any more blood glucose tests. The meter will not function until the battery is replaced.

Instructions:

1. Make sure the meter is off before removing the battery.
2. Turn over the meter to locate the battery cover. Press the battery cover tab on the top and lift the cover to open the battery cover.
3. Remove and discard the old battery. Insert two new CR 2032 3.0V coin cell batteries on top of the plastic tape. Make sure it is aligned with the plus (+) side facing up in the battery carrier.
4. Close the battery cover and make sure that it snaps shut.
5. Recheck and reset the clock setting as necessary after battery replacement to ensure time is set correctly. To set the meter clock, see **Meter Setup Before Testing** on page 12.



Caring for Your On Call® Advanced Blood Glucose Monitoring System

Blood Glucose Meter

Your *On Call® Advanced* Blood Glucose Meter does not require special maintenance or cleaning. A cloth dampened with water and a mild detergent solution can be used to wipe the outside of the meter. Use 70% Isopropyl Alcohol to disinfect the meter. Take care to avoid getting liquids, dirt, blood or control solution into the meter through the strip or data ports. It is recommended that you store the meter in the carrying case after each use.

On Call® Advanced Blood Glucose Meter is a precision electronic instrument. Please handle it with care.

Lancing Device

Use mild soap and warm water to clean with a soft cloth as required. Use 70% Isopropyl Alcohol to disinfect the lancing device. Carefully dry the device thoroughly. Do not immerse the lancing device. Please refer to the lancing device insert for more details.

Suggested Testing Times and Target Goals

Tracking your blood glucose concentration through frequent testing is an important part of proper diabetes care. Your diabetes health care professional will help you to decide the normal target range for your glucose levels. They will also help you determine when and how often to test your blood glucose. Some suggested times are:

- When you wake up (fasting level)
- Before breakfast
- 1-2 hours after breakfast
- Before lunch
- 1-2 hours after lunch
- Before or after exercise
- Before dinner
- 1-2 hours after dinner
- Before bedtime
- After a snack
- At 2 or 3 AM, if taking insulin

You may need to test more often whenever¹:

- You add or adjust your medication for diabetes.
- You think your blood glucose levels may be too low or too high.
- You are ill, or feeling uncomfortable over long periods of time.

The American Diabetes Association (ADA) recommends the following blood glucose target ranges for diabetics.

Average pre-meal levels 3.9-5.6 mmol/l (70-100 mg/dl)

Peak post-meal level <7.8 mmol/l (140 mg/dl)

Consult your diabetes healthcare professional to set your own optimal target ranges throughout the day².

Time of Day	Your Target Range
Waking up (Fasting level)	
Before meals	
2 hours after meals	
Bedtime	
2 AM to 3 AM	
Other	

(Note: 1 mmol/L = 18 mg/dL)

Use the logbook to record your blood glucose measurements and related information. Bring the logbook with you when visiting your physician so that you can determine how well your blood glucose is being controlled. This can help you and your health care professional make the best decisions about your glucose control plan.

1. Jennifer Mayfield and Stephen Havas, "Self-Control: A Physician's Guide to Blood Glucose Monitoring in the Management of Diabetes. An American Family Physician Monograph"
2. American Diabetes Association Position Statement: Standards of Medical Care in Diabetes. *Diabetes Care*, Volume 28 (Suppl. 1): S10, January 2005

Comparing Meter and Laboratory Results

Your *On Call® Advanced* Blood Glucose System and laboratory results both report the glucose concentration in the serum or plasma component of your blood. However, the results may differ somewhat due to normal variation. This is expected, but the difference under normal operating conditions should be no greater than 20%. To ensure a reasonable comparison, follow these guidelines.

Before you go to the lab:

- Bring your meter, test strip and control solution with you to the lab.
- Make sure your meter is clean.
- Perform a quality control test to make sure the meter is working properly.
- Comparisons will be more accurate if you do not eat for at least four hours (preferably eight hours) before testing.

At the lab:

- Wash your hands before obtaining a blood sample.
- Obtain blood samples for a laboratory test and for your meter within 10 minutes of each other. This will ensure an accurate comparison of results.
- Never use your meter with blood that has been placed in test tubes containing fluoride or other anticoagulants. This will cause falsely low results.

Troubleshooting Guide

The meter has built-in messages to alert you of problems. When error messages appear, note the error number, turn off the meter and then follow these instructions.

Display	Causes	Solution
Meter fails to turn on	Battery may be damaged or not be charged	Replace battery.
	Meter is too cold	If meter has been exposed to or stored in cold conditions, wait 30 minutes to allow meter to reach room temperature then repeat test.
E-0	Power On self check error	Remove battery for 30 seconds and then put battery back and turn meter on again. If problem persists, contact your local dealer.
E-1	Internal calibration check error	If a cell phone, radio frequency source or a high On/Off electrical source is nearby, place more distance between the meter and any of these sources then retest. If the problem persists, contact your local distributor.
E-2	Test strip was removed during the test	Repeat the test and ensure test strip remains in place.
E-3	Sample was applied to the test strip too soon	Repeat test and apply sample after blood drop/test strip icon appears.
E-4	Test strip is contaminated or used	Repeat test with a new test strip.
E-5	Insufficient sample	Repeat test and apply enough sample to fill the test strip check window.
	Sample application error due to late sample re-dosing	Repeat test and apply enough sample to fill the test strip check window within 3 seconds.
Ht	Temperature has exceeded the operating temperature of the system	Move to a cooler environment and repeat the test.
Lt	Temperature is below the operating temperature of the system	Move to a warmer environment and repeat the test.

Display	Causes	Solution
	Battery is discharged but has enough power to run 20 more tests	Test results will still be accurate, but replace the battery as soon as possible.
E-6	Battery has discharged and meter does not allow more tests until discharged battery is replacement with a new battery	Replace the battery and repeat the test.
CODE 	No code chip in the meter	Insert the code chip that accompanied the box of test strips.
E-7	Damaged code chip or the code chip was removed during a test	If the code chip is damaged, use a new code chip with the correct code number and run the test. If the code chip is removed during a test, confirm the code chip matches the test strip code and repeat the test.
E-8	Meter electronics failure	If the problem persists, contact your local distributor.
E-9	Non On Call® Advanced code chip inserted in the meter	Indicates an incorrect brand of code chip was inserted in the meter. Please make sure you use the On Call® Advanced brand of test strip with the On Call® Advanced Blood Glucose Meter. If the problem persists, contact your local distributor.
E 10	Communications failure	There is an error in transferring data to the PC. See the package insert included with the Data Management Kit for troubleshooting.
E 11	Strip testing error	Repeat test and apply enough sample to fill the test strip check window within 3 seconds. When repeat testing, do not touch the strip during meter count down. Please make sure fresh blood sample with intended hematocrit level is used. Please make sure blood sample is not contaminated. If problem persists, contact your local distributor.

Specifications

Feature	Specification
Measurement Range	0.6-33.3 mmol/L (10 - 600 mg/dL)
Result Calibration	Plasma-equivalent
Sample	Fresh whole blood (Capillary, Venous, Neonatal, and Arterial)
Minimum Sample Size	0.8 µL
Test Time	5 seconds
On/Off Source	Two (2) CR 2032 3.0V coin cell batteries
Battery Life	Minimum of 3,000 measurements (without considering data transfer and test reminder alarm)
Glucose Units of Measure	The meter is pre-set to either millimoles per liter (mmol/L) or milligrams per deciliter (mg/dL) depending on the standard of your country
Memory	Up to 300 records with time and date
Automatic shutoff	2 minutes after last action
Meter Size	90mm x 58mm x 21mm
Display Size	41mm x 37mm
Weight	66g (with battery installed)
Operating Temperature	5 - 45°C
Operating Relative Humidity	10 - 90%
Hematocrit Range	20 - 70%
Data Port	9600 baud, 8 data bits, 1 stop bit, no parity

Warranty

Please complete the warranty card that came with this product and mail it to your dealer to register your purchase.

If the meter fails to work for any reason other than obvious abuse within the first five (5) years from purchase, we will replace it with a new meter free of charge. For your records, also write the purchase date of your product here.

Date of purchase: _____

Note: This warranty applies only to the meter in the original purchase, and does not apply to the battery supplied with the meter.

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	Consult instructions for use
	For <i>in vitro</i> diagnostic use only
	Store between 2-30°C
	Contains sufficient for <n> tests
	Use by
	Lot Number
	Manufacturer
	Authorized Representative
	Sterilized using irradiation
	Code Number
	Control Range
	Catalog #
	Do not dispose along with household waste

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